



August 19, 2022

Patricia (Trish) Biggio
Chemical Review Manager
Pesticide Re-evaluation Division
Document Processing Desk (Amend)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

RE: Product: **PYRINEX CHLORPYRIFOS INSECTIDE**
EPA Registration N. 11678-58
Fast Track Amendment
Required technical label changes based on the June 30, 2022, National Marine Fisheries Services' (NMFS) Revised Biological Opinion on the effects of EPA's national registration of Chlorpyrifos

Dear Ms. Biggio,

ADAMA Makhteshim c/ Makhteshim Agan of North America, Inc. (d/b/a ADAMA) is hereby submitting a fast-track amendment to the product PYRINEX CHLORPYRIFOS INSECTIDE (EPA Reg. N. 11678-58) to submit the required technical label changes based on the June 30, 2022, National Marine Fisheries Services' (NMFS) Revised Biological Opinion on the effects of EPA's national registration of Chlorpyrifos.

In support to this application, the following documents are presented:

- Application Form
- Labels with the required changes (clean and highlighted versions).

If you have any questions regarding this petition, please contact me at phone number: D. +1 919 256-9329 | M. +1 919 623-3069 or by e-mail: miriam.frugis@adama.com

Sincerely,



Miriam Frugis
U.S. Registration Leader | Regulatory Affairs
D. +1 919 256-9329 | M. +1 919 623-3069
E miriam.frugis@adama.com

ADAMA

MANA, Inc. | 3120 Highwoods Blvd. Suite 100 Raleigh, NC 27604
Telephone +1 919 256 9300 | Facsimile +1 919 256 9308 | www.adama.com

Registration Review Label Submission			
Submission ID: RRL-106902			
Registration Review Label Submission Information			
Submission Name	PYRINEX CHLORPYRIFOS INSECTIDE		
Case Number	0100-1		
Case Name	Chlorpyrifos		
Reason for Submitting	ADAMA Makhteshim c Makhteshim Agan of North America, Inc. (dba ADAMA) is hereby submitting a fast-track amendment to the product PYRINEX CHLORPYRIFOS INSECTIDE (EPA Reg. N. 11678-58) to submit the required technical label changes based on the June 30, 2022, National Marine Fisheries Services (NMFS) Revised Biological Opinion on the effects of EPAs national registration of Chlorpyrifos.		
Initial Submission	No		
Company Name	MAKHTESHIM AGAN OF NORTH AMERICA, INC.		
Company Number	66222		
RRL Documents			
Document Type	Contains CBI?	Document Name	Product Registration Number
Submission Cover Letter	No	2022-08-19 Chlorpyrifos_Fast Track Amendment - cover letter.pdf	
Form 8570-1 Pesticide Registration/Amendment Application	No	2022-08-19 Chlorpyrifos_8570-1_Pesticide Application Form.pdf	11678-58
Draft Label	No	Pyrinex Chlorpyrifos Insecticide-1167-58-BiOp label changes - 08-18-22 - clean.pdf	11678-58
Draft Label	No	Pyrinex Chlorpyrifos Insecticide-1167-58-BiOp label changes - 08-18-22 - Redline.pdf	11678-58
Submitter Information			
Submitter	Miriam Frugis		
Submitted Date	08/19/2022		
I certify, under penalty of law that the information provided in this document is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

VIA E-MAIL, RETURN RECEIPT REQUESTED

August 12, 2022

Subject: Required technical label changes based on the June 30, 2022, National Marine Fisheries Service's (NMFS) Revised Biological Opinion on the effects of EPA's national registration of chlorpyrifos as well as additional label changes necessary for consistency with the tolerance revocation

Dear Sir or Madam:

You are receiving this letter because your company holds active technical registrations for chlorpyrifos products, and those labels must be amended consistent with the NMFS Biological Opinion¹ (BiOp) on the effects of chlorpyrifos on federally-listed endangered and threatened (listed) species. As is common practice in nationwide pesticide consultations, the chlorpyrifos technical registrants, including your company, Adama, were included in the consultation process. During the consultation, the technical registrants committed to amend their technical and end-use chlorpyrifos product labels and registrations so that these measures could be considered by NMFS and incorporated into the chlorpyrifos BiOp Description of the Action. NMFS determined that with these commitments and the general and species-specific (*i.e.*, Bulletins) labeling changes set forth in the Description of the Action in the BiOp, the Service was able to conclude that chlorpyrifos is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. Therefore, per the NMFS BiOp, all technical registrants with pesticide products containing chlorpyrifos must request amendments to their technical registrations and labels, as described below and in Attachment 1, **within 60 days of BiOp issuance (August 29, 2022).**

The following language must be added to the "Directions for Use" section of all technical product labels per the NMFS BiOp:

- "This product may only be formulated into registered end-use products with EPA-approved labeling that contains the language and restrictions per the conservation measures listed in the Description of the Action in the National Marine Fisheries Service nationwide Final Revised Biological Opinion: Chlorpyrifos, Diazinon, Malathion, dated June 30, 2022."
- "This product may only be formulated into registered end-use products with EPA-approved labeling that contains the following language and restrictions (to be placed at

¹ <https://www.fisheries.noaa.gov/resource/document/biological-opinion-chlorpyrifos-diazinon-and-malathion>.

the beginning of the “Directions for Use” section of all end-use product labels):
“ENDANGERED SPECIES PROTECTION REQUIREMENTS”: It is a Federal offense to use any pesticide in a manner that results in an unauthorized “take” (e.g., kill or otherwise harm) of an endangered species, and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.””

- “This product may only be formulated into registered end-use products with EPA-approved labeling that contains the following language and restrictions (to be placed at the beginning of the “Directions for Use” section of all end-use product labels):
“Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call [registrant phone number].””

In addition to label changes necessary to comply with the BiOp, EPA is noting that other changes to your labels are required for consistency with the fact that all tolerances for chlorpyrifos have been revoked. As noted in EPA’s March 2022 letter, the chlorpyrifos tolerances have been revoked and thus, chlorpyrifos cannot be used on food or feed crops without resulting in adulterated food. Chlorpyrifos products containing food uses for which there are no tolerances are considered misbranded because bearing labeling allowing use on food is considered misleading when such food could not be sold in commerce. Consequently, in that March letter, EPA informed you of the need to terminate food uses and/or amend labels to remove food uses from your chlorpyrifos registrations to be in compliance with FIFRA. The Agency has reviewed Adama’s initial submission and has found that it does not fully address concerns about the potential for misbranding due to the lack of chlorpyrifos tolerances. A list of necessary corrections can be found in Attachment 2. EPA is asking for corrected/revised labels with the necessary changes by August 29, 2022, in conjunction with those submitted for the BiOp mitigation.

A list of your currently registered technical products containing chlorpyrifos is attached to this letter (Attachment 3). EPA requests that you inform the Agency how you intend to address the label amendments specified in the NMFS BiOp and the additional edits necessary to address food uses by indicating in the product list whether or not a product is subject to the requirements of the NMFS BiOp and/or requires revision due to the tolerance revocation. The label language described above must be added to all technical product labels. In addition, you must also amend the labels as described in Appendix 3. Please send the completed product list by email to the Chemical Review Manager (the person listed at the end of this letter), within 10 business days of receiving this letter.

Within 60-days of the issuance of the NMFS BiOp (August 29, 2022), submit a cover letter, a completed Application for Registration (EPA form 8570-1) and copies of your amended product labels. For each label, submit two copies, a clean copy and an annotated copy with changes. To allow EPA to process the amendment application efficiently, include only the amendments determined by EPA to be necessary and described in this letter as well as the following statements on the Application for Registration (EPA form 8570-1):

“I certify that this amendment satisfies the requirements as determined by EPA to be consistent with the NMFS Biological Opinion for chlorpyrifos and no other changes have been made to the labeling of this product. I understand that it is a violation of 18 U.S.C. Section 1001 to willfully make any false statement to EPA. I further understand that if this amendment is found not to satisfy the requirements determined by EPA, this product may be subject to further regulatory action.”

By August 29, 2022, submit the required documents to the “Registration Review” section of EPA’s Pesticide Submission Portal (PSP). The PSP can be accessed through EPA’s Central Data Exchange (CDX) using the following link: <https://cdx.epa.gov/>. Please be aware that the Agency is currently not accepting paper submissions because of COVID-19.

If you need to resubmit your labels (*i.e.*, you previously submitted your label in response to EPA’s March 2022 tolerance revocation letter), you can do so via CDX but ensure that you identify your submission as a “Resubmission,” (*i.e.*, check “No” if you’re asked if it is an initial submission).

Based on the BiOp and tolerance revocation, in the absence of this revised labeling, chlorpyrifos will not have sufficient directions for use and/or precautionary statements to adequately protect human health and the environment, including federally-listed species. Therefore, failure to submit requests to properly amend labels in a timely and adequate manner may result in regulatory action.

Please contact Trish Biggio if you have any questions about this letter or the NMFS Biological Opinion. She may be reached at (202) 566-1938 or at biggio.patricia@epa.gov.

Sincerely,


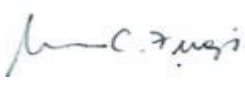


Dana Friedman
Branch Chief
Risk Management and Implementation Branch I
Pesticide Re-evaluation Division

Attachments:

- (1) Required label language for technical product labels per the June 30, 2022 NMFS Chlorpyrifos BiOp
- (2) List of necessary label corrections based on the February 2022 tolerance revocation
- (3) List of Currently Registered Pesticide Products Containing Chlorpyrifos

cc: Michael Walsh, PM 11 Registration Division (RD)

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other _____	OPP Identifier Number
Application for Pesticide – Section I			
1. Company/Product Number 11678-58	2. EPA Product Manager Michael Walsh	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted	
4. Company/Product (Name) Pyrinex Chlorpyrifos Insectide	PM# 11		
5. Name And Address Of Applicant (Include ZIP Code) Makhteshim Agan of North America, Inc. (d/b/a ADAMA) 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	
Section II			
<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Final Printed labels in response to Agency letter dated _____			
<input checked="" type="checkbox"/> Resubmission in response to Agency letter dated <u>August 12, 2022</u> <input type="checkbox"/> "Me Too" Application.			
<input type="checkbox"/> Notification – Explain below. <input type="checkbox"/> Other – Explain Below.			
Explanation: Use additional page(s) if necessary. (For section I and Section II.) ADAMA Makhteshim c/ Makhteshim Agan of North America, Inc. (d/b/a ADAMA) is hereby submitting a fast-track amendment to the product Pyrinex Chlorpyrifos Insectide (EPA Reg. N. 11678-58) to submit the required technical label changes based on the June 30, 2022, National Marine Fisheries Services' (NMFS) Revised Biological Opinion on the effects of EPA's national registration of chlorpyrifos.			
Section III			
1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No * Certification must be submitted	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" No. per Unit Packaging wgt. Container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" No. per Unit Packaging wgt. Container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) - _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(S) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithographed <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____			
Section IV			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Miriam Frugis	Title U.S. Registration Leader	Telephone No. (Include Area Code) D. +1 919 256-9329 M. +1	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 	3. Title U.S. Registration Leader Regulatory Affairs		
4. Typed Name Miriam Frugis	5. Date August 19, 2022		

PYRINEX®

CHLORPYRIFOS INSECTICIDE

An Insecticide for Formulating Use Only

ACTIVE INGREDIENT:	% BY WT.
Chlorpyrifos: (0,0-diethyl 0-(3,5,6-trichloro-2-pyridinyl phosphorothioate)	97.9%
OTHER INGREDIENTS:	2.1%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN WARNING

Manufactured for:
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highlands Blvd., Suite 100
Raleigh, NC 27604

EPA Reg. No.11678-58

EPA Est. No. [REDACTED]

NET CONTENTS: ____ LBS

FIRST AID Organophosphate	
IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF INHALED:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-250-9291 for emergency medical treatment information.	
NOTE TO PHYSICIAN: Pyrinex® (chlorpyrifos) is a cholinesterase inhibitor. Initial measures include removal of secretions, maintenance of a patient airway, and if necessary, artificial respiration. When cyanosis is relieved, atropine may be administered in large therapeutic doses, repeated as necessary to the point of tolerance. If symptoms warrant further treatment, protopam chloride (pralidoxime chloride, 2-PAM chloride) has shown utility as adjunctive therapy. Never use morphine. Continued absorption of the poison may occur resulting in a fatal relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 to 72 hours.	

In case of spills, fire, leaks or accidents call 1-800-535-5053.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

May be fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Do not breathe dust. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Handle chemical in a ventilated area.

PRECAUTIONS

Read all directions before using. Keep away from food, feedstuffs, and domestic water supplies. Keep container closed.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish, aquatic invertebrates, and bees. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. After October 1, 2000, any manufacturing-use product formulated from this product must bear EPA-approved labeling that is consistent with the terms of the June 7, 2000, memorandum of agreement between EPA and registrants of pesticide products containing chlorpyrifos. Only for formulation into an ***insecticide*** for the following uses: text in [square brackets] after each site category heading refers to the general use group as referenced in 40 CFR 158.

This product may only be formulated into registered end-use products with EPA-approved labeling that contains the language and restrictions per the conservation measures listed in the Description of the Action in the National Marine Fisheries Service Nationwide Final Revised Biological Opinion: Chlorpyrifos, Diazinon, Malathion, dated June 30, 2022.

ENDANGERED SPECIES PROTECTION REQUIREMENTS: It is a Federal offense to use any pesticide in a manner that results in an unauthorized “take” (e.g., kill or otherwise harm) of an endangered species, and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call **1-866-406-6262**.

A. AGRICULTURAL USES

- i) The end-use product labeling may include the following statement: “Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 CFR Part 170.”
- ii) Any emulsifiable concentrate (EC) end-use product formulated from the product must be labeled as a restricted use product. All other end-use products formulated from the product must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation, 50 pounds of a granular formulation, or 25 pounds of any other dry formulation.

Ornamentals - commercial production only [Commercial Terrestrial Non-Food, Commercial Greenhouse Non-Food]:

- Flowers, shrubs, evergreens, vines, shade, and flowering trees in nurseries or greenhouses only.
- Christmas trees.
- Forest tree nurseries.
- Non-bearing fruit, nut, and citrus trees.
- Commercial sod farms.
- Grass grown for seed.

End-use products containing directions for use in nursery operations must be restricted to wholesale nursery operations only. Wholesale nursery operations are commercial agricultural operations which do not sell or distribute directly to consumers or the general public through retail sales. The end-use products must also contain a prohibition against selling or distributed treated plants directly to consumers or the general public through retail sales.

Forest trees [Forestry]: Plantations, forests, seed orchards, felled trees, cut stumps.

B. NON-AGRICULTURAL, NON-TERMITE CONTROL USES:

After December 1, 2000, this product may only be used to formulate an end-use pesticide product labeled for non-agricultural, non-termite control uses in accordance with the following conditions:

- i) Any emulsifiable concentrate (EC) end-use product formulated from this product must be labeled as a restricted use product. All other end-use products formulated from the product (other than containerized baits in child-resistant packaging) must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation or 25 pounds of a dry formulation.
- ii) The end-use product may not bear use directions for any indoor residential use (as that term is defined in 40 CFR 152.3) other than containerized baits in child-resistant packaging.
- iii) Any emulsifiable concentrate (EC) end-use product formulated from this product may not bear use directions for any indoor non-residential use. All other end-use products may not bear use directions for any indoor non-residential use other than one or more of the following uses: warehouses, ship holds, railroad boxcars, industrial plants, manufacturing plants, or containerized baits in child-resistant packaging.
- iv) The product may not bear use directions for any residential outdoor use other than one or more of the following public health uses: individual fire ant mound treatment or mosquito control.
- v) The product may not bear use instructions for any non-residential outdoor use other than one or more of the following uses:
 - (a) golf courses, road medians, and industrial plant sites, provided that the maximum label application rate is no greater than 1 lb/ai per acre;
 - (b) fence posts, utility poles, railroad ties, landscape timbers, logs, pallets, poles, posts

Pest Control Indoors [Indoor Residential]: Containerized ant and roach baits in child resistant packaging for indoor residential uses only.

Commercial Pest Control Indoors [Indoor Non-Residential]: Ship holds, railroad boxcars, industrial plants, manufacturing plants only.

Commercial Pest Control Outdoors [Terrestrial Non-Food, Non-Residential Commercial]:

- Underground utility cables and conduits.
- Turf and ornamentals in road medians; turf and ornamentals in industrial plant sites (provided the use rate is no greater than 1 lb ai/acre).
- Interior treatment of warehouses, railroad boxcars, industrial plants, manufacturing plants only.

Turf [Terrestrial Non-Food]: Golf course turf, turf in road medians, and turf in industrial plant sites (provided the use rate is no greater than 1 lb ai/acre).

Public Health Uses Only:

- USDA Quarantine Use: soil treatment of potted, containerized, or balled and burlapped nursery stock plants in nurseries and greenhouses only.
- Public health uses to control individual fire ant mounds and for mosquito control. Mosquito control may only be applied by trained personnel of public health organizations, mosquito abatement districts, public mosquito control programs, and professional pest control operators.

C. OTHER USES: This product may be formulated into insecticide products for other uses for which the US EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration excluding any use strictly prohibited by this label.

D. EXPERIMENTAL USES: This product may be formulated into insecticide products for uses for experimental purposes that are in compliance with US EPA requirements.

E. PROHIBITED USES: All manufacturing-use and end-use products produced from this product must bear the following statement: "This product may NOT be used for formulation into manufacturing-use or end-use products for the following uses: **Aquatic Uses (Aquatic Food Crop, Aquatic Non-Food):** Any aquatic use, including mosquito larvicide, termiticide uses."

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: STORE IN A DRY PLACE.

PESTICIDE DISPOSAL: Improper disposal of unused spray mixture or rinse water is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER HANDLING: NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER.

Completely empty container into equipment. Then offer for recycling, if possible, or dispose of empty container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, keep out of smoke. For minor spills, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY**.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ADAMA. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ADAMA makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of ADAMA is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ADAMA disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at ADAMA's election, the replacement of product.

Pyrinex is a registered trademark of an ADAMA Group Company.

Pyrinex Chlorpyrifos Insecticide -11678-58-BiOp -08-18-22

PYRINEX®

CHLORPYRIFOS INSECTICIDE

An Insecticide for Formulating Use Only

ACTIVE INGREDIENT:	% BY WT.
Chlorpyrifos: (0,0-diethyl 0-(3,5,6-trichloro-2-pyridinyl phosphorothioate)	97.9%
OTHER INGREDIENTS:	2.1%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN WARNING

Manufactured for:
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)
3120 Highwoods Blvd., Suite 100
Raleigh, NC 27604

EPA Reg. No.11678-58

EPA Est. No. [REDACTED]

NET CONTENTS: ____ LBS

FIRST AID <u>Organophosphate</u>	
IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF INHALED:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact <u>PROSAR</u> at 1-877-250-9291 for emergency medical treatment information.	
NOTE TO PHYSICIAN: Pyrinex® (chlorpyrifos) is a cholinesterase inhibitor. Initial measures include removal of secretions, maintenance of a patient airway, and if necessary, artificial respiration. When cyanosis is relieved, atropine may be administered in large therapeutic doses, repeated as necessary to the point of tolerance. If symptoms warrant further treatment, protopam chloride (pralidoxime chloride, 2-PAM chloride) has shown utility as adjunctive therapy. Never use morphine. Continued absorption of the poison may occur resulting in a fatal relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 to 72 hours.	

In case of spills, fire, leaks or accidents call 1-800-535-5053.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

May be fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Do not breathe dust. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Handle chemical in a ventilated area.

PRECAUTIONS

Read all directions before using. Keep away from food, feedstuffs, and domestic water supplies. Keep container closed.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish, aquatic invertebrates, and bees. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. After October 1, 2000, any manufacturing-use product formulated from this product must bear EPA-approved labeling that is consistent with the terms of the June 7, 2000, memorandum of agreement between EPA and registrants of pesticide products containing chlorpyrifos. Only for formulation into an ***insecticide*** for the following uses: text in [square brackets] after each site category heading refers to the general use group as referenced in 40 CFR 158.

This product may only be formulated into registered end-use products with EPA-approved labeling that contains the language and restrictions per the conservation measures listed in the Description of the Action in the National Marine Fisheries Service Nationwide Final Revised Biological Opinion: Chlorpyrifos, Diazinon, Malathion, dated June 30, 2022.

ENDANGERED SPECIES PROTECTION REQUIREMENTS: It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species, and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-866-406-6262.

A. AGRICULTURAL USES

- i) The end-use product labeling may include the following statement: "Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 CFR Part 170."
- ii) Any emulsifiable concentrate (EC) end-use product formulated from the product must be labeled as a restricted use product. All other end-use products formulated from the product must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation, 50 pounds of a granular formulation, or 25 pounds of any other dry formulation.

Ornamentals - commercial production only [Commercial Terrestrial Non-Food, Commercial Greenhouse Non-Food]:

- Flowers, shrubs, evergreens, vines, shade, and flowering trees in nurseries or greenhouses only.
- Christmas trees.
- Forest tree nurseries.
- Non-bearing fruit, nut, and citrus trees.
- Commercial sod farms.
- Grass grown for seed.

End-use products containing directions for use in nursery operations must be restricted to wholesale nursery operations only. Wholesale nursery operations are commercial agricultural operations which do not sell or distribute directly to consumers or the general public through retail sales. The end-use products must also contain a prohibition against selling or distributed treated plants directly to consumers or the general public through retail sales.

Forest trees [Forestry]: Plantations, forests, seed orchards, felled trees, cut stumps.

B. NON-AGRICULTURAL, NON-TERMITE CONTROL USES:

After December 1, 2000, this product may only be used to formulate an end-use pesticide product labeled for non-agricultural, non-termite control uses in accordance with the following conditions:

- i) Any emulsifiable concentrate (EC) end-use product formulated from this product must be labeled as a restricted use product. All other end-use products formulated from the product (other than containerized baits in child-resistant packaging) must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation or 25 pounds of a dry formulation.
- ii) The end-use product may not bear use directions for any indoor residential use (as that term is defined in 40 CFR 152.3) other than containerized baits in child-resistant packaging.
- iii) Any emulsifiable concentrate (EC) end-use product formulated from this product may not bear use directions for any indoor non-residential use. All other end-use products may not bear use directions for any indoor non-residential use other than one or more of the following uses: warehouses, ship holds, railroad boxcars, industrial plants, manufacturing plants, ~~food processing plants~~, or containerized baits in child-resistant packaging.
- iv) The product may not bear use directions for any residential outdoor use other than one or more of the following public health uses: individual fire ant mound treatment or mosquito control.
- v) The product may not bear use instructions for any non-residential outdoor use other than one or more of the following uses:
 - (a) golf courses, road medians, and industrial plant sites, provided that the maximum label application rate is no greater than 1 lb/ai per acre;
 - (b) fence posts, utility poles, railroad ties, landscape timbers, logs, pallets, poles, posts

Pest Control Indoors [Indoor Residential]: Containerized ant and roach baits in child resistant packaging for indoor residential uses only.

Commercial Pest Control Indoors [Indoor Non-Residential]: Ship holds, railroad boxcars, industrial plants, manufacturing plants, ~~food processing plants~~ only.

Commercial Pest Control Outdoors [Terrestrial Non-Food, Non-Residential Commercial]:

- Underground utility cables and conduits.
- Turf and ornamentals in road medians; turf and ornamentals in industrial plant sites (provided the use rate is no greater than 1 lb ai/acre).
- Interior treatment of warehouses, railroad boxcars, industrial plants, manufacturing plants, ~~food processing plants~~ only.

Turf [Terrestrial Non-Food]: Golf course turf, turf in road medians, and turf in industrial plant sites (provided the use rate is no greater than 1 lb ai/acre).

Public Health Uses Only:

- USDA Quarantine Use: soil treatment of potted, containerized, or balled and burlapped nursery stock plants in nurseries and greenhouses only.
- Public health uses to control individual fire ant mounds and for mosquito control. Mosquito control may only be applied by trained personnel of public health organizations, mosquito abatement districts, public mosquito control programs, and professional pest control operators.

C. OTHER USES: This product may be formulated into insecticide products for other uses for which the US EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration excluding any use strictly prohibited by this label.

D. EXPERIMENTAL USES: This product may be formulated into insecticide products for uses for experimental purposes that are in compliance with US EPA requirements.

E. PROHIBITED USES: All manufacturing-use and end-use products produced from this product must bear the following statement: "This product may NOT be used for formulation into manufacturing-use or end-use products for the following uses: **Aquatic Uses (Aquatic Food Crop, Aquatic Non-Food):** Any aquatic use, including mosquito larvicide, termiticide uses."

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: STORE IN A DRY PLACE.

PESTICIDE DISPOSAL: Improper disposal of unused spray mixture or rinse water is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER HANDLING: NONREFILLABLE CONTAINER. DO NOT REUSE OR REFILL THIS CONTAINER.

Completely empty container into equipment. Then offer for recycling, if possible, or dispose of empty container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, keep out of smoke. For minor spills, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ADAMA. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ADAMA makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of ADAMA is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, ADAMA disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at ADAMA's election, the replacement of product.

Pyrinex is a registered trademark of an ADAMA [Group Company](#).

Pyrinex Chlorpyrifos Insecticide -11678-58-BiOp -08-~~47~~18-22